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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 6

Complete if Known	
Application Number	10/602,694
Filing Date	June 20, 2003
First Named Inventor	Sommadossi *et al.*
Group Art Unit	1614
Examiner Name	Unassigned
Attorney Docket Number	06171.105073 IDX 1006 CON1

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U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. [1]	U.S. Patent Document Number	Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pgs, Clmns, Lns, Where Relevant Passages/Relevant Figs Appear
	AA	3,480,613	A	Walton *et al.*	11-25-1969	
	AB	5,977,061	A	De Clercq	11-02-1999	
	AC	6,340,690	B1	Bachand *et al.*	01-22-2002	
	AD	6,348,587	B1	Schinazi *et al.*	02-2002	
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	AG	6,573,248	B1	Ramasamy *et al.*	06-03-2003	
	AH	2002/0019363	A1	Ismaili et al.	02-2002	
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	AK	2003/008841	A1	Devos *et al.*	01-09-2003	
	AL	2003/028013	A1	Wang *et al.*	02-06-2003	
	AM	2003/0050229	A1	Sommadossi *et al.*	03-13-2003	
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	AQ	FR	1,521,076	A	Merck & Co. Inc.	04-12-1968		
	AR	FR	1,581,628	A	Merck & Co. Inc.	09-19-1969		
	AS	FR	2,662,165	A	Univ. Paris Curie	11-22-1991		
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	AY	WO	99/43691	A1	Emory U.; U.Ga.R.F.	02-09-1999		
	AZ	WO	00/09531	A2	Novirio Pharm. (Idenix)	02-24-2000		
	AAA	WO	01/32153	A2	Biochem Pharma	05-10-2001		

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Sheet 2 of 6

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Group Art Unit	1614
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Attorney Docket Number	06171.105073 IDX 1006 CON1

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	BA	WO	01/60315	A2	Biochem Pharma	08-23-2001		
	BB	WO	01/68663	A1	ICN Pharmaceuticals	09-20-2001		
	BC	WO	01/79246	A2	Pharmasset	10-25-2001		
	BD	WO	01/90121	A2	Novirio Pharm. (Idenix)	11-29-2001		
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	BQ	WO	03/026589	A2	Idenix; CNRS; U. Montp.	04-03-2003		
	BR	WO	03/026675	A1	Idenix; CNRS; U. Montp.	04-03-2003		
	BS	WO	03/051899	A1	Ribapharm	06-26-2003		
	BT	WO	03/061385	A1	Ribapharm	07-31-2003		
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	BZ	WO	03/068162	A2	Pharmasset	08-21-2003		
	BAA	WO	03/072757	A2	Biota Inc.	09-04-2003		
	BAB	WO	03/093290	A2	Genelabs Technologies	11-13-2003		
	BAC	WO	04/002422	A2	Idenix; Univ.D.S.Cagliari	01-08-2004		
	BAD	WO	04/002999	A2	Idenix; Univ.D.S.Cagliari	01-08-2004		

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Sheet 3 of 6

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First Named Inventor	Sommadossi *et al.*
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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

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	CA	ALTMANN *et al*, "The synthesis of 1'-methyl carbocyclic thymidine and its effect on nucleic acid duplex stability," *Synlett, Thieme Verlag, Stuttgart, De*, 10:853-855 (1994).	
	CB	BAGINSKI, S. G, *et al.*, "Mechanism of action of a pestivirus antiviral compound," *PNAS USA*, 97(14):7981-7986 (2000).	
	CC	BEIGELMAN, L.N., *et al*, "Epimerization during the acetolysis of 3-*O*-acetyl-5-*O*-benzoyl-1,2-*O*-isopropylidene-3-*C*-methyl-α,D-ribofuranose. Synthesis of 3'-*C*-methylnucleosides with the β-D-*ribo*- and α-D-*arabino* configurations," *Carbohydrate Research*, 181:77-88 (1988).	
	CD	BEIGELMAN, L.N., *et al*, "A general method for synthesis of 3'-C-alkylnucleosides," *Nucleic Acids Symp. Ser.*, 9:115-118 (1981).	
	CE	BERENGUER, M., *et al*, "Hepatitis B and C viruses: Molecular identification and targeted antiviral therapies," *Proceedings of the Association of American Physicians*, 110(2), 98-112 (1998).	
	CF	CARROLL, S.S., *et al.*, "Inhibition of hepatitis C virus RNA replication by 2'-modified nucleoside analogs," *The Journal of Biological Chemistry*, 278(14):11979-11984 (2003).	
	CG	CZERNECKI, S., *et al*, "Synthesis of various 3'-branched 2',3'-unsaturated pyrimidine nucleosides as potential anti-HIV agents," *J. Org. Chem.*, 57:7325-7328 (1992).	
	CH	De FRANCESCO, R., *et al.*, "Approaching a new era for hepatitis C virus therapy: Inhibitors of the NS3-4A serine protease and the NS5B RNA-dependent RNA polymerase," *Antiviral Research*, 58:1-16 (2003).	
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	CJ	FARKAS, J., *et al.*, "Nucleic acid components and their analogues. XCIV. Synthesis of 6-amino-9-(1-deoxy-β-D-psicofuranosyl)purine", *Collect. Czech. Chem. Commun.* 32:2663-2667 (1967).	
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	CL	FEDOROV, I.I., *et al*, "3'-C-Branched 2'-deoxy-5-methyluridines: Synthesis, enzyme inhibition, and antiviral properties," *J. Med. Chem.*, 35(24):4567-4575 (1992).	
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Sheet 4 of 6

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Application Number	10/602,694
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(67)	DA	HARAGUCHI, K., *et al.*, "Stereoselective synthesis of 1'-*C*-branched uracil nucleosides from uridine," *Nucleosides & Nucleotides*, 14(3-5):417-420 (1995).	
	DB	HARRY-O'KURU, R.E., *et al.*, "A short, flexible route toward 2'-C-branched ribonucleosides", *J.Org. Chem.*, 62:1754-1759 (1997). (Scheme 11).	
	DC	HARRY-O'KURU, R.E., *et al.*, "2'-*C*-Alkylribonucleosides: Design, synthesis, and conformation," *Nucleosides & Nucleotides*, 16(7-9):1457-1460 (1997). ["Rogers" in #2; correct name in #7]	
	DD	HATTORI, H., et al, "Nucleosides and nucleotides. 175. Structural requirements of the sugar moiety for the antitumor activities of new nucleoside antimetabolites, 1-(3-*C*-ethynyl-b-D-*ribo*-pentofuranosyl)cytosine and -uracil," *J. Med. Chem.*, 41:2892-2902 (1998).	
	DE	HREBABECKY, H., *et al.*, "Nucleic acid components and their analogues. CXLIX. Synthesis of pyrimidine nucleosides derived from 1-deoxy-D-psicose," *Collect. Czech. Chem. Commun.*, 37:2059-2065 (1972).	
	DF	HREBABECKY, H., *et al.* "Synthesis of 7- and 9β-D-psicofuranosylguanine and their 1'-deoxy derivatives," *Collect. Czech. Chem. Commun.*, 39:2115-2123 (1974).	
	DG	IINO, T., *et al.*, "Nucleosides and nucleotides. 139. Stereoselective synthesis of (2'*S*)-2'-*C*-alkyl-2'-deoxyuridines," *Nucleosides and Nucleotides*, 15(1-3):169-181 (1996).	
	DH	ITOH, Y., *et al*, "Divergent and stereocontrolled approach to the synthesis of uracil nucleosides branched at the anomeric position," *J. Org. Chem.*, 60(3):656-662 (1995).	
	DI	JOHNSON, C.R., *et al*, "3'-*C*-Trifluoromethyl ribonucleosides," *Nucleosides & Nucleotides*, 14(1&2):185-194 (1995).	
	DJ	KAWANA, M., *et al.*, "The deoxygenation of tosylated adenosine derivatives with Grignard reagents," *Nucleic Acids Symp. Ser.*, 17:37-40 (1986).	
	DK	LAVAIRE, S., *et al.*, "3'-Deoxy-3'-*C*-trifluoromethyl nucleosides: Synthesis and antiviral evaluation," *Nucleosides & Nucleotides*, 17(12):2267-2280 (1998).	
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	EA	MATSUDA, A., *et al.*, "Nucleosides and Nucleotides. 94. Radical deoxygenation of *tert*-alcohols in 1-(2-*C*-alkylpentofuranosyl)pyrimidines : Synthesis of (2'*S*)-2'-deoxy-2'-*C*-methylcytidine, an antileukemic nucleoside, " *J. Med. Chem.*, 34:234-239 (1991).	
	EB	MATSUDA, A., *et al.*, "Nucleosides and Nucleotides. 104. Radical and palladium-catalyzed deoxygenation of the allylic alcohol systems in the sugar moiety of pyrimidine nucleosides," *Nucleosides & Nucleotides*, 11(2/4):197-226 (1992).	
	EC	MIKHAILOV, S.N., *et al.*, "Synthesis and properties of 3'*C*-methylnucleosides and their phosphoric esters," *Carbohydrate Research*, 124:75-96 (1983).	
	ED	MIKHAILOV, S.N., *et al.*, "Substrate properties of C'-methylnucleoside and C'-methyl-2'-deoxynucleoside 5'-triphosphates in RNA and DNA synthesis reactions catalysed by RNA and DNA polymerases," *Nucleosides & Nucleotides*, 10(1-3):339-343 (1991).	
	EE	MIKHAILOV, S.N., *et al*, "Hydrolysis of 2'- and 3'-*C*-methyluridine 2'c3'-cyclic monophosphates and interconversion and dephosphorylation of the resulting 2'- and 3'-monophosphates: Comparison with the reactions of uridine monophosphates," *J. Org. Chem.*, 57 (15):4122-4126 (1992).	
	EF	NUTT, R.F., *et al.*, "Branched-chain sugar nucleosides. III. 3'-C-methyladenine", *J.Org. Chem.*, 33:1789-1795 (1968).	
	EG	OIVANEN, M., *et al*, "Additional evidence for the exceptional mechanism of the acid-catalyzed hydrolysis of 4-oxopyrimidine nucleosides: Hydrolysis of 1-(1-alkoxyalkyl)uracils, seconucleosides, 3'-*C*-alkyl nucleosides and nucleoside 3',5'-cyclic monophosphates," *J. Chem. Soc. Perkin Trans. 2*, 1994:309-314 (1994).	
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	EI	Oral Session V, Hepatitis C Virus, Flaviviridae; 16th International Conference on Antiviral Research (April 27, 2003, Savannah, Ga.) p A75-77.	
	EJ	PAN-ZHOU, X-R, *et al.*, "Differential effects of antiretroviral nucleoside analogs on mitochondrial function in HepG2 cells," *Antimicrob. Agents Chemother.*, 44:496-503 (2000).	
	EK	ROSENTHAL, A., *et al.*, "Branched-chain sugar nucleosides. Synthesis of 3'-*C*-ethyl (and 3'-*C*-butyl)uridine *Carbohydrate Research*, 79:235-242 (1980).	
	EL	SAMANO, V., *et al.*, "Synthesis and radical-induced ring-opening reactions of 2'-deoxyadenosine-2'-spirocyclopropane and its uridine analogue. Mechanistic probe for ribonucleotide reductases," *J. Am. Chem. Soc.*, 114:4007-4008 (1992).	

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	FA	SAMANO, V., *et al.*, "Nucleic acid related compounds. 77. 2',3'-Didehydro-2',3'-dideoxy-2'(and 3')-methylnucleosides via [3,3]-sigmatropic rearrangements of 2'(and 3')-methylene-3'(and 2')-*O*-thiocarbonyl derivatives and radical reduction of a 2'-chloro-3'-methylene analogue," *Can. J. Chem.*, 71:186-191 (1993).	
	FB	SCHMIT, C., *et al*, "The effects of 2'- and 3'-alkyl substituents on oligonucleotide hybridization and stability," *Biorganic & Medicinal Chemistry Letters*, 4(16):1969-1974 (1994). ["Altmann"]	
	FC	SERAFINOWSKI, P.J., *et al.*, "New method for the preparation of some 2'- and 3'-trifluoromethyl-2',3'-dideoxyuridine derivatives," *Tetrahedron* (Elsevier Science Publishers), 56(2):333-339 (1999).	
	FD	SHARMA, P.K., *et al.*, "Synthesis of 3'-trifluoromethyl nucleosides as potential antiviral agents," *Nucleosides, Nucleotides and Nucleic Acids*, 19(4):757-774 (2000).	
	FE	SOMMADOSSI J-P, *et al.*, "Comparison of cytotoxicity of the (-)- and (+)-enantiomer of 2',3'-dideoxy-3'-thiacytidine in normal human bone marrow progenitor cells" *Biochemical Pharmacology*, 44:1921-1925 (1992).	
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Sheet 1 of 2

3226087

	Complete if Known
Application Number	10/602,694
Filing Date	June 20, 2003
First Named Inventor	Sommadossi *et al.*
Group Art Unit	1623
Examiner Name	Travis C. McIntosh, III
Attorney Docket Number	06171.105073 IDX 1006 CON 1 US

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